

AMINOCARBOXYLIC ACID BREAKER COMPOSITIONS FOR FRACTURING FLUIDS

Abstract of the Disclosure

5 It has been discovered that aminocarboxylic acids are effective breakers
for polymer-gelled aqueous fracturing fluids, particularly in the temperature range
between about 120°F (49°C) and about 280° F (138°C). The aminocarboxylic
acids are believed to act directly on the polymer and not to any great extent or not
10 to as an effective extent on a crosslinking agent, if present. The polymer may be
a polysaccharide, and the aminocarboxylic acid may be selected from the group
including, but not necessarily limited to, tetrasodium ethylenediaminetetraacetic
acid (Na₄EDTA), tetrasodium propylenediaminetetraacetic acid (Na₄PDTA), triso-
dium hydroxyethylenediaminetetraacetic acid (Na₄HEDTA), trisodium nitrilotriace-
15 tic acid (Na₃NTA), salts of these acids, and mixtures thereof.